

Serial No. 09/786,584

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1-11 (Canceled)

12. (Currently Amended) A heat exchange unit for mounting inside a building, comprising:

a box provided with walls defining two fluid passages having a cross section of undulating shape, and

an air circulator for causing a counter current circulation in the two fluid passages, including a stream of fresh air obtained from outside the building to circulate in one of the two fluid passages and a stream of stale air from inside the building to circulate in the other of the two fluid passages,

wherein the walls defining the two fluid passages include a removable thin flexible foil forming undulations capable of being deformed as a function of the respective pressures of the stream of fresh air and of the stream of stale air, and

wherein the air circulator introduces the stream of fresh air and the stream of stale air, both under pressure, in the respective fluid passages, to create open channels in the flexible foil,

wherein the air circulator includes at least one entry fan mounted in a central region of the box for introducing into the building the stream of fresh air, and two extraction fans mounted respectively at two opposite end regions of the box for extracting from inside the building the stream of stale air,

a controller for selectively running or stopping said at least one entry fan and the two extraction fans, and

wherein heat exchange occurs when the two extraction fans are running, and ~~heat exchange is prohibited when there is an exchange of air without recuperation of heat~~, one of the two extraction fans is running and the other of the two extraction fans is stopped.

13. (Previously Presented) The unit according to Claim 12, wherein the foil is air-tight.

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14. (Previously Presented) The unit according to Claim 12, wherein the foil is impermeable to water vapor.

15. (Previously Presented) The unit according to Claim 12, wherein the foil is permeable to water vapor.

16. (Previously Presented) The unit according to claim 12, wherein the box has a generally elongated shape, and the undulations of the flexible foil have generatrices which are substantially parallel to each other and extend along the length of the box.

17. (Previously Presented) The unit according to Claim 16, wherein the box is arranged vertically, and the generatrices of the undulations are substantially vertical.

Claims 18-22. (Canceled)

23. (Currently Amended) A heat exchange unit for mounting inside a building, comprising:

a box provided with walls defining two fluid passages, each passage having a cross section of undulating shape, said box being in fluid communication with fresh air outside a building and stale air inside a building, and

an air circulator for causing a counter current circulation in the two fluid passages ~~including~~ of a stream of the fresh air obtained from outside the building to circulate under pressure in one of the two fluid passages and a stream of the stale air from inside the building to circulate under pressure in the other of the two fluid passages,

wherein the walls defining the two fluid passages include a removable thin flexible foil ~~forming undulations capable of having the undulating shape, said foil being deformed as a~~ function of the respective pressures of the stream of fresh air and of the stream of stale air,

wherein, when the air circulator introduces the stream of fresh air and the stream of stale air, both under pressure, in the respective fluid passages, ~~to create open channels~~ are created in the flexible foil, respectively, and

wherein the foil is permeable to water vapor.

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24. (Previously Presented) The unit according to claim 23, wherein the box has a generally elongated shape, and the undulations of the flexible foil have generatrices which are substantially parallel to each other and extend along the length of the box.

25. (Previously Presented) The unit according to claim 24, wherein the box is arranged vertically, and the generatrices of the undulations are substantially vertical.

26. (Currently Amended) The unit according to claim 23, wherein the air circulator includes at least one entry fan mounted in a central region of the box for introducing into the building box the stream of fresh air, and two extraction fans mounted respectively at two opposite end regions of the box for ~~extracting from inside the building~~ moving the stream of stale air from inside the building into the box.

27. (Previously Presented) The unit according to claim 26, further comprising:
a controller for selectively running or stopping said at least one entry fan and the two extraction fans.

28. (Currently Amended) The unit according to claim 27, wherein heat exchange occurs when the two extraction fans are running, and ~~heat exchange is prohibited~~ there is an exchange of air without recuperation of heat, when one of the two extraction fans is running and the other of the two extraction fans is stopped.